European Journal of Pharmacology – Molecular Pharmacology Section, 172 (1989) 501–504
Elsevier

Author index

Abbracchio, M.P., see Di Luca, M. (172) 321
Agnati, L.F., see Von Euler, G. (172) 435
Ando, H., see Kuno, T. (172) 263
Asaro, D., see Bonanno, G. (172) 41

Barnard, E.A., see Gut, S.H. (172) 339
Benezra, M., see Gerst, J.E. (172) 29
Bettini, E., see Maggi, A. (172) 357
Blay, J. and Hollenberg, M.D.
Heterologous regulation of EGF receptor function in cultured aortic smooth muscle cells (172) 1
Bockaert, J., see Pin, J.-P. (172) 81
Bodmer, D.M., see Waser, P.G. (172) 231
Boer, R., Grassegger, A., Schudt, C. and Glossmann, H.
(+)-Niguldipine binds with very high affinity to Ca^{2+} channels and to a subtype of α_1-adrenoceptors (172) 131
Boer, R., see Graziadei, I. (172) 329
Böhm, M., Gierschik, P., Ungerer, M. and Erdmann, E.
Coupling of adenosine receptors to a pertussis toxin-sensitive G protein in the human heart (172) 407
Bolanos, F., see Gozlan, H. (172) 497
Bonanno, G., Pellegrini, G., Asaro, D., Fontana, G. and Raiteri, M.
$GABA_B$ autoreceptors in rat cortex synaptosomes: response under different depolarizing and ionic conditions (172) 41
Bonanno, G., see Raiteri, M. (172) 223
Botanch, C., see Gairin, J.-E. (172) 381
Brouwer, F., see Van Amsterdam, R.G.M. (172) 175
Brunello, N., see Perez, J. (172) 305

Cattabeni, F., see Di Luca, M. (172) 321
Chambaut-Guérin, A.-M. and Thomopoulos, P.
Forskolin inhibition of cyclic AMP generation in J774 macrophages (172) 385
Cimino, M., see Di Luca, M. (172) 321
Cote, T.E., see Frey, E.A. (172) 347
Cros, J., see Gairin, J.-E. (172) 381
Custers, A.F.C.M., see IJzerman, A.P. (172) 273

Demoliou-Mason, C.D., see Gut, S.H. (172) 339
Den Hertog, A., see Nelemans, A. (172) 283
Di Luca, M., Cimino, M., Abbracchio, M.P. and Cattabeni, F.
In vivo modulation of striatal phosphoproteins by dopaminergic agents (172) 321
Drejer, J., see Honoré, T. (172) 239
Dufy, B., see Mollard, P. (172) 71
Dunwiddie, T.V., see Fredholm, B.B. (172) 249

Elzinga, C.R.S., see Roffel, A.F. (172) 61
Emerit, M.B., see Gozlan, H. (172) 497
Erdmann, E., see Böhm, M. (172) 407
Erspamer, V., see Raiteri, M. (172) 223

Flynn, D.D., Palermo, N. and Suarez, A.
Agonist binding to M_1 muscarinic receptors is sensitive to guanine nucleotides (172) 363
Fontana, G., see Bonanno, G. (172) 41
Fraeyman, N., see Vanscheeuwijck, P. (172) 373
Fredholm, B.B., Proctor, W., Van der Ploeg, I. and Dunwiddie, T.V.
In vivo pertussis toxin treatment attenuates some, but not all, adenosine A_1 effects in slices of the rat hippocampus (172) 249
Fredholm, B.B., see Nordstedt, C. (172) 51
Fredholm, B.B., see Von Euler, G. (172) 435
Frey, E.A., Gosse, M.E. and Cote, T.E.
Reconstitution of the solubilized μ-opioid receptor coupled to a GTP-binding protein (172) 347
Fritze, J., Koronakis, P., Konradi, C. and Riederer, P.
Isoelectric focusing of monoamine oxidase subtypes as identified by MAO inhibitors (172) 147
Fuxe, K., see Von Euler, G. (172) 435

Gairin, J.-E., Botanch, C., Cros, J. and Meunier, J.-C.
Binding of dynorphin A and related peptides to κ- and μ-opioid receptors: sensitivity to Na^+ ions and Gpp(NH)p (172) 381
Garthwaite, G., see Garthwaite, J. (172) 413
Garthwaite, J., Garthwaite, G., Palmer, R.M.J. and Moncada, S.
NMDA receptor activation induces nitric oxide synthesis from arginine in rat brain slices (172) 413
Gašparík, J.
Biologically active conformation of [Met^5]- and [Leu^5]enkephalin on δ opioid receptor (172) 417
Gerst, J.E., Benezra, M., Schimmer, A. and Salomon, Y.
Phorbol ester impairs melanotropin receptor function and stimulates growth of cultured M2R melanoma cells (172) 29
Gierschik, P., Sidiropoulos, D., Steisslinger, M. and Jakobs, K.H.
Na^+ regulation of formyl peptide receptor-mediated signal transduction in HL 60 cells. Evidence that the cation prevents activation of the G-protein by unoccupied receptors (172) 481
Gierschik, P., see Böhm, M. (172) 407
Gierschik, P., see Reithmann, C. (172) 211

0922-4106/89/$03.50 © 1989 Elsevier Science Publishers B.V. (Biomedical Division)

Glossman, H., see Graziadei, I. (172) 329
Glossmann, H., see Boer, R. (172) 131
Gosse, M.E., see Frey, E.A. (172) 347
Gozlan, H., Schechter, L.E., Bolanos, F., Emerit, M.B., Miquel, M.C., Nielsen, M. and Hamon, M.
Determination of the molecular size of the 5-HT_3 receptor binding site by radiation inactivation (172) 497
Grassegger, A., see Boer, R. (172) 131
Graziadei, I., Zernig, G., Boer, R. and Glossman, H.
Stereoselective binding of niguldipine enantiomers to α_{1A}-adrenoceptors labeled with [^{3}H]5-methyl-urapidil (172) 329
Greenblatt, D.J., see Lopez, F. (172) 453
Guenet, C., Leppik, R.A., Pelton, J.T., Moelling, K., Lovenberg, W. and Harris, B.A.
HIV-1 protease: mutagenesis of asparagine 88 indicates a domain required for dimer formation (172) 443
Gut, S.H., Demoliou-Mason, C.D., Hunter, J.C., Hughes, J. and Barnard, E.A.
Solubilization and characterisation of the cholecystokinin$_B$ binding site from pig cerebral cortex (172) 339

Hamon, M., see Gozlan, H. (172) 497
Hamprecht, B., see Reiser, G. (172) 195
Harris, B.A., see Guenet, C. (172) 443
Harris, K.M., see Reynolds, I.J. (172) 9
Hilf, G. and Jakobs, K.H.
Activation of cardiac G-proteins by muscarinic acetylcholine receptors: regulation by Mg^{2+} and Na^+ ions (172) 155
Hinsch, K.D., see Joost, H.G. (172) 461
Hirai, M., see Kuno, T. (172) 263
Hollenberg, M.D., see Blay, J. (172) 1
Honoré, T., Drejer, J., Nielsen, E., Watkins, J.C., Olverman, H.J. and Nielsen, M.
Molecular target size analyses of the NMDA-receptor complex in rat cortex (172) 239
Hoos, B., see IJzerman, A.P. (172) 273
Hopff, W.H., see Waser, P.G. (172) 231
Hughes, J., see Gut, S.H. (172) 339
Hunter, J.C., see Gut, S.H. (172) 339

IJzerman, A.P., Thedinga, K.H., Custers, A.F.C.M., Hoos, B. and Van Belle, H.
Inhibition of nucleoside transport by a new series of compounds related to lidoflazine and mioflazine (172) 273
IJzerman, A.P., see J.M. Van Galen, P. (172) 19
IJzerman, A.P., see Pirovano, I.M. (172) 185
Ito, A., see Kuno, T. (172) 263

Jakobs, K.H., see Gierschik, P. (172) 481
Jakobs, K.H., see Hilf, G. (172) 155
Jakobs, K.H., see Reithmann, C. (172) 211
Janssen, P.A.J., see Pauwels, P.J. (172) 471
Joost, H.G., Schmitz-Salue, C., Hinsch, K.D., Schultz, G. and Rosenthal, W.
Phosphorylation of G-protein α-subunits in intact adipose cells: evidence against a mediating role in insulin-dependent metabolic effects (172) 461

Kaplan, G.B., see Lopez, F. (172) 453
Koch, R., see Reiser, G. (172) 199
Konradi, C., see Fritze, J. (172) 147
Kopp, R., Lambrecht, G., Mutschler, E., Moser, U., Tacke, R. and Pfeiffer, A.
Human HT-29 colon carcinoma cells contain muscarinic M_3 receptors coupled to phosphoinositide metabolism (172) 397
Koronakis, P., see Fritze, J. (172) 147
Kuno, T., Shuntoh, H., Takeda, T., Ito, A., Sakaue, M., Hirai, M., Ando, H. and Tanaka, C.
Activation of type I cyclic AMP-dependent protein kinases is impaired by a point mutation in cyclic AMP binding sites (172) 263
Kvanta, A., see Nordstedt, C. (172) 51

Lambrecht, G., see Kopp, R. (172) 397
Leppik, R.A., see Guenet, C. (172) 443
Leusen, F.J.J., see J.M. Van Galen, P. (172) 19
Leysen, J.E., see Pauwels, P.J. (172) 471
Leysen, J.E., see Schotte, A. (172) 99
Livett, B.G., see Wan, D.C.-C. (172) 107
Livett, B.G., see Wan, D.C.-C. (172) 117
Lopez, F., Miller, L.G., Greenblatt, D.J., Kaplan, G.B. and Shader, R.I.
Interaction of caffeine with the $GABA_A$ receptor complex: alterations in receptor function but not ligand binding (172) 453
Lovenberg, W., see Guenet, C. (172) 443

Maggi, A., Pellegrini, S. and Bettini, E.
Estrogen-induced proteins in rat hypothalamus (172) 357
Marchi, M., see Raiteri, M. (172) 223
Marley, P.D., see Wan, D.C.-C. (172) 117
Matthies, H., see Popov, N. (172) 205
Melchiorri, P., see Raiteri, M. (172) 223
Meunier, J.-C., see Gairin, J.-E. (172) 381
Meurs, H., see Roffel, A.F. (172) 61
Meurs, H., see Van Amsterdam, R.G.M. (172) 175
Miller, L.G., see Lopez, F. (172) 453
Miller, R.J., see Reynolds, I.J. (172) 9
Miquel, M.C., see Gozlan, H. (172) 497
Moelling, K., see Guenet, C. (172) 443
Mollard, P., Vacher, P., Dufy, B., Winiger, B.P. and Schlegel, W.
Inhibitors of 1,2-diacylglycerol kinase potentiate the TRH-induced stimulation of Ca^{2+} activated K^+ current (172) 71
Moncada, S., see Garthwaite, J. (172) 413
Moser, U., see Kopp, R. (172) 397
Muldoon, S.M., see Robinson-White, A.J. (172) 291
Mutschler, E., see Kopp, R. (172) 397

Nahorski, S.R., see Rooney, T.A. (172) 425
Near, J.A., see Vincent, M.S. (172) 317
Nelemans, A., Van den Akker, J. and Den Hertog, A.
Characterization of the UV-induced electrophysiological response in smooth muscle (172) 283

Nielsen, E., see Honoré, T. (172) 239
Nielsen, M., see Gozlan, H. (172) 497
Nielsen, M., see Honoré, T. (172) 239
Nielsen, M., see Wong, E.H.F. (172) 493
Nordstedt, C., Kvanta, A., Van der Ploeg, I. and Fredholm, B.B.
Dual effects of protein kinase-C on receptor stimulated cAMP accumulation in a human T-cell leukemia line (172) 51

Olverman, H.J., see Honoré, T. (172) 239

Palermo, N., see Flynn, D.D. (172) 363
Palmer, R.M.J., see Garthwaite, J. (172) 413
Pauwels, P.J., Leysen, J.E. and Janssen, P.A.J.
β-Adrenoceptor-mediated cAMP accumulation in cardiac cells: effects of nebivolol (172) 471
Pellegrini, G., see Bonanno, G. (172) 41
Pellegrini, S., see Maggi, A. (172) 357
Pelton, J.T., see Guenet, C. (172) 443
Perez, J., Tinelli, D., Brunello, N. and Racagni, G.
cAMP-dependent phosphorylation of soluble and crude microtubule fractions of rat cerebral cortex after prolonged desmethylimipramine treatment (172) 305
Pfeiffer, A., see Kopp, R. (172) 397
Pin, J.-P., Van Vliet, B.J. and Bockaert, J.
Complex interaction between quisqualate and kainate receptors as revealed by measurement of GABA release from striatal neurons in primary culture (172) 81
Pirovano, I.M., IJzerman, A.P., Van Galen, P.J.M. and Soudijn, W.
Influence of the molecular structure of N^6-(ω-aminoalkyl) adenosines on adenosine receptor affinity and intrinsic activity (172) 185
Popov, N. and Matthies, H.
Influence of dopamine receptor agonists and antagonists on calmodulin translocation in different brain regions (172) 205
Postema, J.B., see Van Amsterdam, R.G.M. (172) 175
Proctor, W., see Fredholm, B.B. (172) 249

Racagni, G., see Perez, J. (172) 305
Raiteri, M., Marchi, M., Bonanno, G., Melchiorri, P. and Erspamer, V.
Facilitation of [^{3}H]acetylcholine and [^{3}H]5-hydroxytryptamine release from rat cerebral cortex synaptosomes by a factor extracted from the skin of the Australian frog *Pseudophryne coriacea* (172) 223
Raiteri, M., see Bonanno, G. (172) 41
Reiser, G. and Hamprecht, B.
Serotonin raises the cyclic GMP level in a neuronal cell line via 5-HT_3 receptors (172) 195
Reiser, G. and Koch, R.
Memantine inhibits serotonin-induced rise of cytosolic Ca^{2+} activity and of cyclic GMP level in a neuronal cell line (172) 199
Reithmann, C., Gierschik, P., Sidiropoulos, D., Werdan, K. and Jakobs, K.H.
Mechanism of noradrenaline-induced heterologous desensitization of adenylate cyclase stimulation in rat heart muscle cells: increase in the level of inhibitory G-protein α-subunits (172) 211
Reynolds, I.J., Harris, K.M. and Miller, R.J.
NMDA receptor antagonists that bind to the strychnine-insensitive glycine site and inhibit NMDA-induced Ca^{2+} fluxes and [^{3}H]GABA release (172) 9
Riederer, P., see Fritze, J. (172) 147
Robinson, F.C., see Robinson-White, A.J. (172) 291
Robinson-White, A.J., Muldoon, S.M. and Robinson, F.C.
Inhibition of inositol phospholipid hydrolysis in endothelial cells by pentobarbital (172) 291
Roffel, A.F., Elzinga, C.R.S., Meurs, H. and Zaagsma, J.
Allosteric interactions of three muscarine antagonists at bovine tracheal smooth muscle and cardiac M_2 receptors (172) 61
Rooney, T.A. and Nahorski, S.R.
Developmental aspects of muscarinic-induced inositol polyphosphate accumulation in rat cerebral cortex (172) 425
Rosenthal, W., see Joost, H.G. (172) 461

Sakaue, M., see Kuno, T. (172) 263
Salomon, Y., see Gerst, J.E. (172) 29
Schechter, L.E., see Gozlan, H. (172) 497
Schimmer, A., see Gerst, J.E. (172) 29
Schlegel, W., see Mollard, P. (172) 71
Schmitz-Salue, C., see Joost, H.G. (172) 461
Schotte, A. and Leysen, J.E.
Identification of 5-HT_2 receptors, α_1-adrenoceptors and amine release sites in rat brain by autoradiography with [^{125}I]7-amino-8-iodo-ketanserin (172) 99
Schudt, C., see Boer, R. (172) 131
Schultz, G., see Joost, H.G. (172) 461
Shader, R.I., see Lopez, F. (172) 453
Shuntoh, H., see Kuno, T. (172) 263
Sidiropoulos, D., see Gierschik, P. (172) 481
Sidiropoulos, D., see Reithmann, C. (172) 211
Soudijn, W., see J.M. Van Galen, P. (172) 19
Soudijn, W., see Pirovano, I.M. (172) 185
Steisslinger, M., see Gierschik, P. (172) 481
Suarez, A., see Flynn, D.D. (172) 363

Tacke, R., see Kopp, R. (172) 397
Takeda, T., see Kuno, T. (172) 263
Tanaka, C., see Kuno, T. (172) 263
Thanei-Wyss, P. and Waser, P.G.
Interaction of quaternary ammonium compounds with acetylcholinesterase: characterization of the active site (172) 165
Thedinga, K.H., see IJzerman, A.P. (172) 273
Thomopoulos, P., see Chambaut-Guérin, A.-M. (172) 385
Timmermans, A., see Van Amsterdam, R.G.M. (172) 175
Tinelli, D., see Perez, J. (172) 305

Ungerer, M., see Böhm, M. (172) 407

Vacher, P., see Mollard, P. (172) 71
Van Amsterdam, R.G.M., Meurs, H., Brouwer, F., Postema, J.B., Timmermans, A. and Zaagsma, J.
Role of phosphoinositide metabolism in functional antagonism of airway smooth muscle contraction by β-adrenoceptor agonists (172) 175
Van Belle, H., see IJzerman, A.P. (172) 273
Van den Akker, J., see Nelemans, A. (172) 283
Van der Ploeg, I., see Fredholm, B.B. (172) 249
Van der Ploeg, I., see Nordstedt, C. (172) 51
Van der Ploeg, I., see Von Euler, G. (172) 435
Van de Velde, E., see Vanscheeuwijck, P. (172) 373
Van Galen, P.J.M., Leusen, F.J.J., IJzerman, A.P. and Soudijn, W.
Mapping the N^6-region of the adenosine A_1 receptor with computer graphics (172) 19
Van Galen, P.J.M., see Pirovano, I.M. (172) 185
Vanscheeuwijck, P., Van de Velde, E. and Fraeyman, N.
Effect of aging on properties and function of β-adrenoceptors in rat lung (172) 373
Van Vliet, B.J., see Pin, J.-P. (172) 81
Vincent, M.S. and Near, J.A.
Interaction of dihydrotetrabenazine binding activity with immobilized lectins (172) 317
Von Euler, G., Fuxe, K., Van der Ploeg, I., Fredholm, B.B. and Agnati, L.F.
Pertussis toxin treatment counteracts intramembrane interactions between neuropeptide Y receptors and α_2-adrenoceptors (172) 435

Wan, D.C.-C. and Livett, B.G.
Induction of phenylethanolamine N-methyltransferase mRNA expression by glucocorticoids in cultured bovine adrenal chromaffin cells (172) 107
Wan, D.C.-C., Marley, P.D. and Livett, B.G.
Histamine activates proenkephalin A mRNA but not phenylethanolamine N-methyltransferase mRNA expression in cultured bovine adrenal chromaffin cells (172) 117
Waser, P.G., Bodmer, D.M. and Hopff, W.H.
Isolation and purification of acetylcholine receptor proteins by affinity chromatography (172) 231
Waser, P.G., see Thanei-Wyss, P. (172) 165
Watkins, J.C., see Honoré, T. (172) 239
Werdan, K., see Reithmann, C. (172) 211
Winiger, B.P., see Mollard, P. (172) 71
Wong, E.H.F. and Nielsen, M.
The N-methyl-D-aspartate receptor channel complex and the σ site have different target sizes (172) 493

Zaagsma, J., see Roffel, A.F. (172) 61
Zaagsma, J., see Van Amsterdam, R.G.M. (172) 175
Zernig, G., see Graziadei, I. (172) 329

European Journal of Pharmacology – Molecular Pharmacology Section, 172 (1989) 505–513
Elsevier

Key word index

A_1 adenosine receptors
A_2 adenosine receptors; Adenylate cyclase; N^6-(ω-Aminoalkyl)adenosines; (Affinity and intrinsic activity, Species differences, Radioligand binding) (Pirovano, I.M. (172) 185)

A_2 adenosine receptors
A_1 adenosine receptors; Adenylate cyclase; N^6-(ω-Aminoalkyl)adenosines; (Affinity and intrinsic activity, Species differences, Radioligand binding) (Pirovano, I.M. (172) 185)

A_1 adenosine receptors
Adenosine; Pertussis toxin; Heart (human); G proteins; Heart failure (Böhm, M. (172) 407)

Acetylcholine release
Skin (*Pseudophryne coriacea*); Cerebral cortex (rat); 5-HT release; (Superfused synaptosomes) (Raiteri, M. (172) 223)

Acetylcholinesterase (EC 3.1.1.7)
Quaternary ammonium compounds; Esteratic subsite; (Active site) (Thanei-Wyss, P. (172) 165)

Adamantane derivative
5-HT_3 receptors; Ion channels; cGMP; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 199)

Adenosine
Prostaglandins; Lymphocytes; Cholera toxin; Phorbol esters; (Receptors) (Nordstedt, C. (172) 51)

A_1 adenosine receptors; Pertussis toxin; Heart (human); G proteins; Heart failure (Böhm, M. (172) 407)

Adenosine A_1 receptors
N^6 region; Computer graphics (J.M. Van Galen, P. (172) 19)

Adenylate cyclase
MSH receptors; Phorbol ester; Melanoma; Cell proliferation (Gerst, J.E. (172) 29)

A_1 adenosine receptors; A_2 adenosine receptors; N^6-(ω-Aminoalkyl)adenosines; (Affinity and intrinsic activity, Species differences, Radioligand binding) (Pirovano, I.M. (172) 185)

Guanine nucleotide-binding protein; Noradrenaline; Heart cells; (Desensitization) (Reithmann, C. (172) 211)

Aging; β-Adrenoceptors; Lung; (Rat) (Vanscheeuwijck, P. (172) 373)

cAMP; Forskolin; Forskolin analogues; Guanine nucleotide regulatory proteins; Macrophage; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

Adenylyl cyclase
μ-Opioid receptors; GTP-binding protein; Pertussis toxin (Frey, E.A. (172) 347)

Adrenal chromaffin cells
Histamine; Proenkephalin A; PNMT (phenylethanolamine N-methyltransferase); Gene regulation (Wan, D.C.-C. (172) 117)

β-Adrenergic relaxation
Functional antagonism; Smooth muscle (airway); Muscarinic receptor agonists; Histamine; Phosphoinositide metabolism (Van Amsterdam, R.G.M. (172) 175)

β-Adrenoceptor antagonist
β-adrenoceptor-mediated cAMP accumulation; Cardiac cells; Nebivolol; (Rat) (Pauwels, P.J. (172) 471)

α_1-Adrenoceptors
[^{125}I]7-Amino-8-iodo-ketanserin ([^{125}I]AMIK); 5-HT_2 receptors; Release sites; (Quantitative autoradiography) (Schotte, A. (172) 99)

1,4-Dihydropyridine; Niguldipine; (Subtype, bivalent ligands) (Boer, R. (172) 131)

α_2-Adrenoceptors
Neuropeptide Y (NPY); G-protein; Pertussis toxin; Medulla oblongata; (Rat) (Von Euler, G. (172) 435)

β-Adrenoceptors
Aging; Lung; Adenylate cyclase; (Rat) (Vanscheeuwijck, P. (172) 373)

α_1-Adrenoceptor subtypes
5-HT_{1A} receptors; Niguldipine; [^{3}H]5-Methyl-urapidil (Graziadei, I. (172) 329)

AF-DX 116
Muscarinic M_3 receptor subtypes; HT-29 colon carcinoma cells; Phosphatidylinositol metabolism; Sila-hexocyclium; Hexhydro-sila-difenidol; Methoctramine (Kopp, R. (172) 397).

Aging
β-Adrenoceptors; Lung; Adenylate cyclase; (Rat) (Vanscheeuwijck, P. (172) 373)

0922-4106/89/$03.50 © 1989 Elsevier Science Publishers B.V. (Biomedical Division)

N^6-(ω-Aminoalkyl)adenosines
A_1 adenosine receptors; A_2 adenosine receptors; Adenylate cyclase; (Affinity and intrinsic activity, Species differences, Radioligand binding) (Pirovano, I.M. (172) 185)

[^{125}I]7-Amino-8-iodo-ketanserin ([^{125}I]AMIK)
5-HT_2 receptors; α_1-Adrenoceptors; Release sites; (Quantitative autoradiography) (Schotte, A. (172) 99)

cAMP
G-proteins; Transmitter release; K^+ conductance; Pyramidal cells (Fredholm, B.B. (172) 249)

Adenylate cyclase; Forskolin; Forskolin analogues; Guanine nucleotide regulatory proteins; Macrophage; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

β-Adrenoceptor-mediated cAMP accumulation
Cardiac cells; Nebivolol; β-Adrenoceptor antagonist; (Rat) (Pauwels, P.J. (172) 471)

cAMP-dependent phosphorylation
Antidepressants; Microtubule-associated protein (Perez, J. (172) 305)

cAMP-dependent protein kinase
Regulatory subunit; Catalytic subunit; Recombinant DNA; Expression vector; (*E. coli*) (Kuno, T. (172) 263)

Amphetamine
Haloperidol; Dopamine; Striatum; Hippocampus; Calmodulin translocation (Popov, N. (172) 205)

Anesthetics
Barbiturates; Endothelium; Pentobarbital; Phosphatidylinositol hydrolysis; Phosphatidylinositol (Robinson-White, A.J. (172) 291)

Antidepressants
cAMP-dependent phosphorylation; Microtubule-associated protein (Perez, J. (172) 305)

Arginine
NMDA receptors; Nitric oxide; cGMP (Garthwaite, J. (172) 413)

(−)-Baclofen
$GABA_B$ autoreceptors; [^{3}H]GABA release; Phaclofen; Muscimol; (Superfused synaptosomes) (Bonanno, G. (172) 41)

Barbiturates
Anesthetics; Endothelium; Pentobarbital; Phosphatidylinositol hydrolysis; Phosphatidylinositol (Robinson-White, A.J. (172) 291)

Benzodiazepine
Caffeine; GABA (γ-aminobutyric acid); Cl^- uptake (Lopez, F. (172) 453)

Ca^{2+}
Smooth muscle; UV light; Lipid peroxidation; Nitrite; cGMP (Nelemans, A. (172) 283)

Caffeine
Benzodiazepine; GABA (γ-aminobutyric acid); Cl^- uptake (Lopez, F. (172) 453)

Ca^{2+} (intracellular)
NMDA receptors; MK801; HA-966; Kynurenic acid; GABA release (Reynolds, I.J. (172) 9)

Calmodulin translocation
Amphetamine; Haloperidol; Dopamine; Striatum; Hippocampus (Popov, N. (172) 205)

Ca^{2+} mobilization
Pituitary; Diacylglycerol; Thyrotropin releasing hormone (TRH); 1-Oleyl-2-acetyl glycerol (OAG); R59022 (Mollard, P. (172) 71)

3-(±)-2-(Carboxypiperazin-4-yl)propyl-1-phosphonic acid (CPP)
N-Methyl-D-aspartate (NMDA); NMDA-receptor complex; N-(1-[2-Thienyl]cyclohexyl)3,4-piperidine (TCP); Glycine; (Molecular target size, Receptors) (Honoré, T. (172) 239)

Cardiac cells
β-adrenoceptor-mediated cAMP accumulation; Nebivolol; β-Adrenoceptor antagonist; (Rat) (Pauwels, P.J. (172) 471)

Cardiac tissue
Muscarinic acetylcholine receptors; G-proteins; Mg^{2+}; Na^+ (Hilf, G. (172) 155)

Catalytic subunit
cAMP-dependent protein kinase; Regulatory subunit; Recombinant DNA; Expression vector; (*E. coli*) (Kuno, T. (172) 263)

Catecholamines
Corpus striatum; Glycoconjugates; Lectins; Tetrabenazine; (Chromatography, Affinity) (Vincent, M.S. (172) 317)

Cation effects
Cholecystokinin$_B$ (CCK_B) receptor solubilization; Guanine nucleotide effect; (Pig) (Gut, S.H. (172) 339)

Cell proliferation
MSH receptors; Phorbol ester; Adenylate cyclase; Melanoma (Gerst, J.E. (172) 29)

Central nervous system (CNS) proteins
Estrogen-inducible proteins; (Hormone action); (Two-dimensional gel electrophoresis) (Maggi, A. (172) 357)

Cerebral cortex (rat)
Skin (*Pseudophryne coriacea*); Acetylcholine release; 5-HT release; (Superfused synaptosomes) (Raiteri, M. (172) 223)

Radiation inactivation; 5-HT_3 receptors; Molecular weight; [^{3}H]Zacopride (Gozlan, H. (172) 497)

Cholecystokinin$_B$ (CCK_B) receptor solubilization
Cation effects; Guanine nucleotide effect; (Pig) (Gut, S.H. (172) 339)

Cholera toxin
Adenosine; Prostaglandins; Lymphocytes; Phorbol esters; (Receptors) (Nordstedt, C. (172) 51)

Chromaffin cells
Proenkephalin; PNMT (phenylethanolamine N-methyltransferase); mRNA; Glucocorticoids; Dexamethasone; Gene expression (Wan, D.C.-C. (172) 107)

Cl^- uptake
Caffeine; Benzodiazepine; GABA (γ-aminobutyric acid) (Lopez, F. (172) 453)

Computer graphics
Adenosine A_1 receptors; N^6 region (J.M. Van Galen, P. (172) 19)

Corpus striatum
Catecholamines; Glycoconjugates; Lectins; Tetrabenazine; (Chromatography, Affinity) (Vincent, M.S. (172) 317)

DARPP-32
Protein phosphorylation; Striatum; Dopamine D-1 receptor; (Pharmacological modulation) (Di Luca, M. (172) 321)

Dexamethasone
Chromaffin cells; Proenkephalin; PNMT (phenylethanolamine N-methyltransferase); mRNA; Glucocorticoids; Gene expression (Wan, D.C.-C. (172) 107)

Diacylglycerol
Pituitary; Ca^{2+} mobilization; Thyrotropin releasing hormone (TRH); 1-Oleyl-2-acetyl glycerol (OAG); R59022 (Mollard, P. (172) 71)

1,4-Dihydropyridine
α_1-Adrenoceptors; Niguldipine; (Subtype, bivalent ligands) (Boer, R. (172) 131)

Dopamine
Amphetamine; Haloperidol; Striatum; Hippocampus; Calmodulin translocation (Popov, N. (172) 205)

Dopamine D-1 receptor
Protein phosphorylation; Striatum; DARPP-32; (Pharmacological modulation) (Di Luca, M. (172) 321)

Dynorphin A
μ-Opioid receptors; κ-Opioid receptors; Na^+ ions; 5′-Guanylyl amidodiphosphate (Gpp(NH)p) sensitivity; (Agonist peptides); (Antagonist peptides) (Gairin, J.-E. (172) 381)

Endothelium
Anesthetics; Barbiturates; Pentobarbital; Phosphatidylinositol hydrolysis; Phosphatidylinositol (Robinson-White, A.J. (172) 291)

Epidermal growth factor receptors
Vascular smooth muscle; Epidermal growth factor-urogastrone; Vasopressins; Serotonin (Blay, J. (172) 1)

Epidermal growth factor-urogastrone
Vascular smooth muscle; Epidermal growth factor receptors; Vasopressins; Serotonin (Blay, J. (172) 1)

Esteratic subsite
Quaternary ammonium compounds; Acetylcholinesterase (EC 3.1.1.7); (Active site) (Thanei-Wyss, P. (172) 165)

Estrogen-inducible proteins
Central nervous system (CNS) proteins; (Hormone action); (Two-dimensional gel electrophoresis) (Maggi, A. (172) 357)

N-Ethylmaleimide (NEM)
Muscarinic receptor subtypes; [^{3}H]Pirenzepine; Hippocampus; Receptor-G protein coupling; (Agonists) (Flynn, D.D. (172) 363)

Expression vector
cAMP-dependent protein kinase; Regulatory subunit; Catalytic subunit; Recombinant DNA; (*E. coli*) (Kuno, T. (172) 263)

N-Formylmethionine-leucyl-phenylalanine (FMLP)
Guanine nucleotide-binding protein (G-protein); Na^+; Pertussis toxin; HL 60 cells (Gierschik, P. (172) 481)

Forskolin
Adenylate cyclase; cAMP; Forskolin analogues; Guanine nucleotide regulatory proteins; Macrophage; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

Forskolin analogues
Adenylate cyclase; cAMP; Forskolin; Guanine nucleotide regulatory proteins; Macrophage; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

Functional antagonism
Smooth muscle (airway); Muscarinic receptor agonists; Histamine; Phosphoinositide metabolism; β-Adrenergic relaxation (Van Amsterdam, R.G.M. (172) 175)

$GABA_B$ autoreceptors
[^{3}H]GABA release; (−)-Baclofen; Phaclofen; Muscimol; (Superfused synaptosomes) (Bonanno, G. (172) 41)

GABA (γ-aminobutyric acid)
Caffeine; Benzodiazepine; Cl^- uptake (Lopez, F. (172) 453)

GABA release
NMDA receptors; MK801; HA-966; Kynurenic acid; Ca^{2+} (intracellular) (Reynolds, I.J. (172) 9)

Quisqualate receptors; Kainate receptors; Glutamate; Striatal neurons; (Primary culture) (Pin, J.-P. (172) 81)

[^{3}H]GABA release
$GABA_B$ autoreceptors; (−)-Baclofen; Phaclofen; Muscimol; (Superfused synaptosomes) (Bonanno, G. (172) 41)

Gene expression
Chromaffin cells; Proenkephalin; PNMT (phenylethanolamine N-methyltransferase); mRNA; Glucocorticoids; Dexamethasone (Wan, D.C.-C. (172) 107)

Gene regulation
Histamine; Proenkephalin A; PNMT (phenylethanolamine N-methyltransferase); Adrenal chromaffin cells (Wan, D.C.-C. (172) 117)

Glucocorticoids
Chromaffin cells; Proenkephalin; PNMT (phenylethanolamine N-methyltransferase); mRNA; Dexamethasone; Gene expression (Wan, D.C.-C. (172) 107)

Glutamate
Quisqualate receptors; Kainate receptors; GABA release; Striatal neurons; (Primary culture) (Pin, J.-P. (172) 81)

Glycine
N-Methyl-D-aspartate (NMDA); NMDA-receptor complex; 3-(±)-2-(Carboxypiperazin-4-yl)propyl-1-phosphonic acid (CPP); N-(1-[2-Thienyl]cyclohexyl)3,4-piperidine (TCP); (Molecular target size, Receptors) (Honoré, T. (172) 239)

Glycoconjugates
Catecholamines; Corpus striatum; Lectins; Tetrabenazine; (Chromatography, Affinity) (Vincent, M.S. (172) 317)

cGMP
$5\text{-}HT_3$ receptors; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 195)

$5\text{-}HT_3$ receptors; Ion channels; Adamantane derivative; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 199)

Smooth muscle; UV light; Lipid peroxidation; Nitrite; Ca^{2+} (Nelemans, A. (172) 283)

NMDA receptors; Nitric oxide; Arginine (Garthwaite, J. (172) 413)

G-protein
Neuropeptide Y (NPY); α_2-Adrenoceptors; Pertussis toxin; Medulla oblongata; (Rat) (Von Euler, G. (172) 435)

G-proteins
Muscarinic acetylcholine receptors; Cardiac tissue; Mg^{2+}; Na^+ (Hilf, G. (172) 155)

Transmitter release; K^+ conductance; Pyramidal cells; cAMP (Fredholm, B.B. (172) 249)

G proteins
Adenosine; A_1 adenosine receptors; Pertussis toxin; Heart (human); Heart failure (Böhm, M. (172) 407)

GTP-binding protein
μ-Opioid receptors; Pertussis toxin; Adenylyl cyclase (Frey, E.A. (172) 347)

Guanine nucleotide-binding protein
Adenylate cyclase; Noradrenaline; Heart cells; (Desensitization) (Reithmann, C. (172) 211)

Guanine nucleotide-binding proteins (G-proteins)
Insulin; Pharmacodynamics; Protein phosphorylation (Joost, H.G. (172) 461)

Guanine nucleotide-binding protein (G-protein)
N-Formylmethionine-leucyl-phenylalanine (FMLP); Na^+; Pertussis toxin; HL 60 cells (Gierschik, P. (172) 481)

Guanine nucleotide effect
$Cholecystokinin_B$ (CCK_B) receptor solubilization; Cation effects; (Pig) (Gut, S.H. (172) 339)

Guanine nucleotide regulatory proteins
Adenylate cyclase; cAMP; Forskolin; Forskolin analogues; Macrophage; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

5′-Guanylyl amidodiphosphate (Gpp(NH)p) sensitivity
Dynorphin A; μ-Opioid receptors; κ-Opioid receptors; Na^+ ions; (Agonist peptides); (Antagonist peptides) (Gairin, J.-E. (172) 381)

HA-966
NMDA receptors; MK801; Kynurenic acid; GABA release; Ca^{2+} (intracellular) (Reynolds, I.J. (172) 9)

Haloperidol
Amphetamine; Dopamine; Striatum; Hippocampus; Calmodulin translocation (Popov, N. (172) 205)

Heart cells
Adenylate cyclase; Guanine nucleotide-binding protein; Noradrenaline; (Desensitization) (Reithmann, C. (172) 211)

Heart failure
Adenosine; A_1 adenosine receptors; Pertussis toxin; Heart (human); G proteins (Böhm, M. (172) 407)

Heart (human)
Adenosine; A_1 adenosine receptors; Pertussis toxin; G proteins; Heart failure (Böhm, M. (172) 407)

Hexhydro-sila-difenidol
Muscarinic M_3 receptor subtypes; HT-29 colon carcinoma cells; Phosphatidylinositol metabolism; AF-DX 116; Sila-hexocyclium; Methoctramine (Kopp, R. (172) 397)

Hippocampus
Amphetamine; Haloperidol; Dopamine; Striatum; Calmodulin translocation (Popov, N. (172) 205)

Muscarinic receptor subtypes; [^{3}H]Pirenzepine; Receptor-G protein coupling; N-Ethylmaleimide (NEM); (Agonists) (Flynn, D.D. (172) 363)

Histamine
Proenkephalin A; PNMT (phenylethanolamine N-methyltransferase); Gene regulation; Adrenal chromaffin cells (Wan, D.C.-C. (172) 117)

Functional antagonism; Smooth muscle (airway); Muscarinic receptor agonists; Phosphoinositide metabolism; β-Adrenergic relaxation (Van Amsterdam, R.G.M. (172) 175)

HIV-1
Protease; Protein dimer; Mutagenesis; Synthetic gene (Guenet, C. (172) 443)

HL 60 cells
N-Formylmethionine-leucyl-phenylalanine (FMLP); Guanine nucleotide-binding protein (G-protein); Na^+; Pertussis toxin (Gierschik, P. (172) 481)

HT-29 colon carcinoma cells
Muscarinic M_3 receptor subtypes; Phosphatidylinositol metabolism; AF-DX 116; Sila-hexocyclium; Hexhydro-sila-difenidol; Methoctramine (Kopp, R. (172) 397)

5-HT$_2$ receptors
[^{125}I]7-Amino-8-iodo-ketanserin ([^{125}I]AMIK); α_1-Adrenoceptors; Release sites; (Quantitative autoradiography) (Schotte, A. (172) 99)

5-HT$_3$ receptors
cGMP; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 195)

Ion channels; cGMP; Adamantane derivative; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 199)

Radiation inactivation; Cerebral cortex (rat); Molecular weight; [^{3}H]Zacopride (Gozlan, H. (172) 497)

5-HT$_{1A}$ receptors
α_1-Adrenoceptor subtypes; Niguldipine; [^{3}H]5-Methyl-urapidil (Graziadei, I. (172) 329)

5-HT release
Skin (*Pseudophryne coriacea*); Cerebral cortex (rat); Acetylcholine release; (Superfused synaptosomes) (Raiteri, M. (172) 223)

Inositol polyphosphates
Muscarinic receptors; (Development) (Rooney, T.A. (172) 425)

Insulin
Pharmacodynamics; Protein phosphorylation; Guanine nucleotide-binding proteins (G-proteins) (Joost, H.G. (172) 461)

Ion channels
5-HT$_3$ receptors; cGMP; Adamantane derivative; Neuroblastoma × glioma hybrid cells (Reiser, G. (172) 199)

Isoelectric focusing
Monoamine oxidase (MAO); MAO inhibitors (Fritze, J. (172) 147)

Kainate receptors
Quisqualate receptors; Glutamate; GABA release; Striatal neurons; (Primary culture) (Pin, J.-P. (172) 81)

K$^+$ conductance
G-proteins; Transmitter release; Pyramidal cells; cAMP (Fredholm, B.B. (172) 249)

Kynurenic acid
NMDA receptors; MK801; HA-966; GABA release; Ca^{2+} (intracellular) (Reynolds, I.J. (172) 9)

Lectins
Catecholamines; Corpus striatum; Glycoconjugates; Tetrabenazine; (Chromatography, Affinity) (Vincent, M.S. (172) 317)

[Leu^5]enkephalin
Opiates; [Met^5]enkephalin; (Biologically active conformation) (Gašparík, J. (172) 417)

Lidoflazine
Nucleoside transport inhibition; Mioflazine; Mioflazine analogs; Nitrobenzylthioinosine; (Heterogeneity, Computer model) (IJzerman, A.P. (172) 273)

Lipid peroxidation
Smooth muscle; UV light; Nitrite; Ca^{2+}; cGMP (Nelemans, A. (172) 283)

Lung
Aging; β-Adrenoceptors; Adenylate cyclase; (Rat) (Vanscheeuwijck, P. (172) 373)

Lymphocytes
Adenosine; Prostaglandins; Cholera toxin; Phorbol esters; (Receptors) (Nordstedt, C. (172) 51)

Macrophage
Adenylate cyclase; cAMP; Forskolin; Forskolin analogues; Guanine nucleotide regulatory proteins; Manganese; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

Manganese
Adenylate cyclase; cAMP; Forskolin; Forskolin analogues; Guanine nucleotide regulatory proteins; Macrophage; (J774 cell line) (Chambaut-Guérin, A.-M. (172) 385)

MAO inhibitors
Monoamine oxidase (MAO); Isoelectric focusing (Fritze, J. (172) 147)

Medulla oblongata
Neuropeptide Y (NPY); α_2-Adrenoceptors; G-protein; Pertussis toxin; (Rat) (Von Euler, G. (172) 435)

Melanoma
MSH receptors; Phorbol ester; Adenylate cyclase; Cell proliferation (Gerst, J.E. (172) 29)

[Met^5]enkephalin
Opiates; [Leu^5]enkephalin; (Biologically active conformation) (Gašparík, J. (172) 417)

Methoctramine
Muscarinic M_3 receptor subtypes; HT-29 colon carcinoma cells; Phosphatidylinositol metabolism; AF-DX 116; Sila-hexocyclium; Hexhydro-sila-difenidol (Kopp, R. (172) 397)

N-Methyl-D-aspartate (NMDA)
NMDA-receptor complex; 3-(±)-2-(Carboxypiperazin-4-yl)propyl-1-phosphonic acid (CPP); N-(1-[2-Thienyl]cyclohexyl)3,4-piperidine (TCP); Glycine; (Molecular target size, Receptors) (Honoré, T. (172) 239)

[^{3}H]5-Methyl-urapidil
α_1-Adrenoceptor subtypes; 5-HT$_{1A}$ receptors; Niguldipine (Graziadei, I. (172) 329)

Mg^{2+}
Muscarinic acetylcholine receptors; G-proteins; Cardiac tissue; Na^+ (Hilf, G. (172) 155)

Microtubule-associated protein
Antidepressants; cAMP-dependent phosphorylation (Perez, J. (172) 305)

Mioflazine
Nucleoside transport inhibition; Lidoflazine; Mioflazine analogs; Nitrobenzylthioinosine; (Heterogeneity, Computer model) (IJzerman, A.P. (172) 273)

Mioflazine analogs
Nucleoside transport inhibition; Lidoflazine; Mioflazine; Nitrobenzylthioinosine; (Heterogeneity, Computer model) (IJzerman, A.P. (172) 273)

MK801
NMDA receptors; HA-966; Kynurenic acid; GABA release; Ca^{2+} (intracellular) (Reynolds, I.J. (172) 9)

Molecular weight
Radiation inactivation; 5-HT$_3$ receptors; Cerebral cortex (rat); [^{3}H]Zacopride (Gozlan, H. (172) 497)

Monoamine oxidase (MAO)
MAO inhibitors; Isoelectric focusing (Fritze, J. (172) 147)

MSH receptors
Phorbol ester; Adenylate cyclase; Melanoma; Cell proliferation (Gerst, J.E. (172) 29)

Muscarine receptor subtypes
Ventricle (bovine, left); Smooth muscle (bovine, tracheal); (Allosteric modulation) (Roffel, A.F. (172) 61)

Muscarinic acetylcholine receptors
G-proteins; Cardiac tissue; Mg^{2+}; Na^+ (Hilf, G. (172) 155)

Muscarinic M_3 receptor subtypes
HT-29 colon carcinoma cells; Phosphatidylinositol metabolism; AF-DX 116; Sila-hexocyclium; Hexhydro-sila-difenidol; Methoctramine (Kopp, R. (172) 397)

Muscarinic receptor agonists
Functional antagonism; Smooth muscle (airway); Histamine; Phosphoinositide metabolism; β-Adrenergic relaxation (Van Amsterdam, R.G.M. (172) 175)

Muscarinic receptors
Inositol polyphosphates; (Development) (Rooney, T.A. (172) 425)

Muscarinic receptor subtypes
[^{3}H]Pirenzepine; Hippocampus; Receptor-G protein coupling; N-Ethylmaleimide (NEM); (Agonists) (Flynn, D.D. (172) 363)

Muscimol
GABA$_B$ autoreceptors; [^{3}H]GABA release; (−)-Baclofen; Phaclofen; (Superfused synaptosomes) (Bonanno, G. (172) 41)

Mutagenesis
HIV-1; Protease; Protein dimer; Synthetic gene (Guenet, C. (172) 443)

Na^+
Muscarinic acetylcholine receptors; G-proteins; Cardiac tissue; Mg^{2+} (Hilf, G. (172) 155)

N-Formylmethionine-leucyl-phenylalanine (FMLP); Guanine nucleotide-binding protein (G-protein); Pertussis toxin; HL 60 cells (Gierschik, P. (172) 481)

Na^+ ions
Dynorphin A; μ-Opioid receptors; κ-Opioid receptors; 5′-Guanylyl amidodiphosphate (Gpp(NH)p) sensitivity; (Agonist peptides); (Antagonist peptides) (Gairin, J.-E. (172) 381)

Nebivolol
β-adrenoceptor-mediated cAMP accumulation; Cardiac cells; β-Adrenoceptor antagonist; (Rat) (Pauwels, P.J. (172) 471)

Neuroblastoma × glioma hybrid cells
5-HT_3 receptors; cGMP (Reiser, G. (172) 195)

5-HT_3 receptors; Ion channels; cGMP; Adamantane derivative (Reiser, G. (172) 199)

Neuropeptide Y (NPY)
α_2-Adrenoceptors; G-protein; Pertussis toxin; Medulla oblongata; (Rat) (Von Euler, G. (172) 435)

Nicotinic acetylcholine receptors
(Receptor proteins, Biospecific ligands, Affinity chromatography) (Waser, P.G. (172) 231)

Niguldipine
1,4-Dihydropyridine; α_1-Adrenoceptors; (Subtype, bivalent ligands) (Boer, R. (172) 131)

α_1-Adrenoceptor subtypes; 5-HT_{1A} receptors; [^{3}H]5-Methylurapidil (Graziadei, I. (172) 329)

Nitric oxide
NMDA receptors; Arginine; cGMP (Garthwaite, J. (172) 413)

Nitrite
Smooth muscle; UV light; Lipid peroxidation; Ca^{2+}; cGMP (Nelemans, A. (172) 283)

Nitrobenzylthioinosine
Nucleoside transport inhibition; Lidoflazine; Mioflazine; Mioflazine analogs; (Heterogeneity, Computer model) (IJzerman, A.P. (172) 273)

NMDA-receptor complex
N-Methyl-D-aspartate (NMDA); 3-(±)-2-(Carboxypiperazin-4-yl)propyl-1-phosphonic acid (CPP); N-(1-[2-Thienyl]cyclohexyl)3,4-piperidine (TCP); Glycine; (Molecular target size, Receptors) (Honoré, T. (172) 239)

NMDA receptors
MK801; HA-966; Kynurenic acid; GABA release; Ca^{2+} (intracellular) (Reynolds, I.J. (172) 9)

Nitric oxide; Arginine; cGMP (Garthwaite, J. (172) 413)

σ Sites; Target size analysis (Wong, E.H.F. (172) 493)

Noradrenaline
Adenylate cyclase; Guanine nucleotide-binding protein; Heart cells; (Desensitization) (Reithmann, C. (172) 211)

N^6 region
Adenosine A_1 receptors; Computer graphics (J.M. Van Galen, P. (172) 19)

Nucleoside transport inhibition
Lidoflazine; Mioflazine; Mioflazine analogs; Nitrobenzylthioinosine; (Heterogeneity, Computer model) (IJzerman, A.P. (172) 273)

1-Oleyl-2-acetyl glycerol (OAG)
Pituitary; Ca^{2+} mobilization; Diacylglycerol; Thyrotropin releasing hormone (TRH); R59022 (Mollard, P. (172) 71)

Opiates
[Met^5]enkephalin; [Leu^5]enkephalin; (Biologically active conformation) (Gašparík, J. (172) 417)

κ-Opioid receptors
Dynorphin A; μ-Opioid receptors; Na^+ ions; 5′-Guanylyl amidodiphosphate (Gpp(NH)p) sensitivity; (Agonist peptides); (Antagonist peptides) (Gairin, J.-E. (172) 381)

μ-Opioid receptors
GTP-binding protein; Pertussis toxin; Adenylyl cyclase (Frey, E.A. (172) 347)

Dynorphin A; κ-Opioid receptors; Na^+ ions; 5′-Guanylyl amidodiphosphate (Gpp(NH)p) sensitivity; (Agonist peptides); (Antagonist peptides) (Gairin, J.-E. (172) 381)

Pentobarbital
Anesthetics; Barbiturates; Endothelium; Phosphatidylinositol hydrolysis; Phosphatidylinositol (Robinson-White, A.J. (172) 291)

Pertussis toxin
μ-Opioid receptors; GTP-binding protein; Adenylyl cyclase (Frey, E.A. (172) 347)

Adenosine; A_1 adenosine receptors; Heart (human); G proteins; Heart failure (Böhm, M. (172) 407)

Neuropeptide Y (NPY); α_2-Adrenoceptors; G-protein; Medulla oblongata; (Rat) (Von Euler, G. (172) 435)

N-Formylmethionine-leucyl-phenylalanine (FMLP); Guanine nucleotide-binding protein (G-protein); Na^+; HL 60 cells (Gierschik, P. (172) 481)

Phaclofen
$GABA_B$ autoreceptors; [^{3}H]GABA release; (−)-Baclofen; Muscimol; (Superfused synaptosomes) (Bonanno, G. (172) 41)

Pharmacodynamics
Insulin; Protein phosphorylation; Guanine nucleotide-binding proteins (G-proteins) (Joost, H.G. (172) 461)

Phorbol ester
MSH receptors; Adenylate cyclase; Melanoma; Cell proliferation (Gerst, J.E. (172) 29)

Phorbol esters
Adenosine; Prostaglandins; Lymphocytes; Cholera toxin; (Receptors) (Nordstedt, C. (172) 51)

Phosphatidylinositol
Anesthetics; Barbiturates; Endothelium; Pentobarbital; Phosphatidylinositol hydrolysis (Robinson-White, A.J. (172) 291)

Phosphatidylinositol hydrolysis
Anesthetics; Barbiturates; Endothelium; Pentobarbital; Phosphatidylinositol (Robinson-White, A.J. (172) 291)

Phosphatidylinositol metabolism
Muscarinic M_3 receptor subtypes; HT-29 colon carcinoma cells; AF-DX 116; Sila-hexocyclium; Hexhydro-sila-difenidol; Methoctramine (Kopp, R. (172) 397)

Phosphoinositide metabolism
Functional antagonism; Smooth muscle (airway); Muscarinic receptor agonists; Histamine; β-Adrenergic relaxation (Van Amsterdam, R.G.M. (172) 175)

[^{3}H]Pirenzepine
Muscarinic receptor subtypes; Hippocampus; Receptor-G protein coupling; N-Ethylmaleimide (NEM); (Agonists) (Flynn, D.D. (172) 363)

Pituitary
Ca^{2+} mobilization; Diacylglycerol; Thyrotropin releasing hormone (TRH); 1-Oleyl-2-acetyl glycerol (OAG); R59022 (Mollard, P. (172) 71)

PNMT (phenylethanolamine N-methyltransferase)
Chromaffin cells; Proenkephalin; mRNA; Glucocorticoids; Dexamethasone; Gene expression (Wan, D.C.-C. (172) 107)

Histamine; Proenkephalin A; Gene regulation; Adrenal chromaffin cells (Wan, D.C.-C. (172) 117)

Proenkephalin
Chromaffin cells; PNMT (phenylethanolamine N-methyltransferase); mRNA; Glucocorticoids; Dexamethasone; Gene expression (Wan, D.C.-C. (172) 107)

Proenkephalin A
Histamine; PNMT (phenylethanolamine N-methyltransferase); Gene regulation; Adrenal chromaffin cells (Wan, D.C.-C. (172) 117)

Prostaglandins
Adenosine; Lymphocytes; Cholera toxin; Phorbol esters; (Receptors) (Nordstedt, C. (172) 51)

Protease
HIV-1; Protein dimer; Mutagenesis; Synthetic gene (Guenet, C. (172) 443)

Protein dimer
HIV-1; Protease; Mutagenesis; Synthetic gene (Guenet, C. (172) 443)

Protein phosphorylation
Striatum; DARPP-32; Dopamine D-1 receptor; (Pharmacological modulation) (Di Luca, M. (172) 321)

Insulin; Pharmacodynamics; Guanine nucleotide-binding proteins (G-proteins) (Joost, H.G. (172) 461)

Pyramidal cells
G-proteins; Transmitter release; K^+ conductance; cAMP (Fredholm, B.B. (172) 249)

Quaternary ammonium compounds
Acetylcholinesterase (EC 3.1.1.7); Esteratic subsite; (Active site) (Thanei-Wyss, P. (172) 165)

Quisqualate receptors
Kainate receptors; Glutamate; GABA release; Striatal neurons; (Primary culture) (Pin, J.-P. (172) 81)

R59022
Pituitary; Ca^{2+} mobilization; Diacylglycerol; Thyrotropin releasing hormone (TRH); 1-Oleyl-2-acetyl glycerol (OAG) (Mollard, P. (172) 71)

Radiation inactivation
5-HT_3 receptors; Cerebral cortex (rat); Molecular weight; [^{3}H]Zacopride (Gozlan, H. (172) 497)

Receptor-G protein coupling
Muscarinic receptor subtypes; [^{3}H]Pirenzepine; Hippocampus; N-Ethylmaleimide (NEM); (Agonists) (Flynn, D.D. (172) 363)

Recombinant DNA
cAMP-dependent protein kinase; Regulatory subunit; Catalytic subunit; Expression vector; (*E. coli*) (Kuno, T. (172) 263)

Regulatory subunit
cAMP-dependent protein kinase; Catalytic subunit; Recombinant DNA; Expression vector; (*E. coli*) (Kuno, T. (172) 263)

Release sites
[^{125}I]7-Amino-8-iodo-ketanserin ([^{125}I]AMIK); 5-HT_2 receptors; α_1-Adrenoceptors; (Quantitative autoradiography) (Schotte, A. (172) 99)

mRNA
Chromaffin cells; Proenkephalin; PNMT (phenylethanolamine N-methyltransferase); Glucocorticoids; Dexamethasone; Gene expression (Wan, D.C.-C. (172) 107)

Serotonin
Vascular smooth muscle; Epidermal growth factor receptors; Epidermal growth factor-urogastrone; Vasopressins (Blay, J. (172) 1)

Sila-hexocyclium
Muscarinic M_3 receptor subtypes; HT-29 colon carcinoma cells; Phosphatidylinositol metabolism; AF-DX 116; Hexhydro-sila-difenidol; Methoctramine (Kopp, R. (172) 397)

σ Sites
NMDA receptors; Target size analysis (Wong, E.H.F. (172) 493)

Skin *(Pseudophryne coriacea)*
Cerebral cortex (rat); Acetylcholine release; 5-HT release; (Superfused synaptosomes) (Raiteri, M. (172) 223)

Smooth muscle
UV light; Lipid peroxidation; Nitrite; Ca^{2+}; cGMP (Nelemans, A. (172) 283)

Smooth muscle (airway)
Functional antagonism; Muscarinic receptor agonists; Histamine; Phosphoinositide metabolism; β-Adrenergic relaxation (Van Amsterdam, R.G.M. (172) 175)

Smooth muscle (bovine, tracheal)
Ventricle (bovine, left); Muscarine receptor subtypes; (Allosteric modulation) (Roffel, A.F. (172) 61)

Striatal neurons
Quisqualate receptors; Kainate receptors; Glutamate; GABA release; (Primary culture) (Pin, J.-P. (172) 81)

Striatum
Amphetamine; Haloperidol; Dopamine; Hippocampus; Calmodulin translocation (Popov, N. (172) 205)

Protein phosphorylation; DARPP-32; Dopamine D-1 receptor; (Pharmacological modulation) (Di Luca, M. (172) 321)

Synthetic gene
HIV-1; Protease; Protein dimer; Mutagenesis (Guenet, C. (172) 443)

Target size analysis
NMDA receptors; σ Sites (Wong, E.H.F. (172) 493)

Tetrabenazine
Catecholamines; Corpus striatum; Glycoconjugates; Lectins; (Chromatography, Affinity) (Vincent, M.S. (172) 317)

N-(1-[2-Thienyl]cyclohexyl)3,4-piperidine (TCP)
N-Methyl-D-aspartate (NMDA); NMDA-receptor complex; 3-(±)-2-(Carboxypiperazin-4-yl)propyl-1-phosphonic acid (CPP); Glycine; (Molecular target size, Receptors) (Honoré, T. (172) 239)

Thyrotropin releasing hormone (TRH)
Pituitary; Ca^{2+} mobilization; Diacylglycerol; 1-Oleyl-2-acetyl glycerol (OAG); R59022 (Mollard, P. (172) 71)

Transmitter release
G-proteins; K^+ conductance; Pyramidal cells; cAMP (Fredholm, B.B. (172) 249)

UV light
Smooth muscle; Lipid peroxidation; Nitrite; Ca^{2+}; cGMP (Nelemans, A. (172) 283)

Vascular smooth muscle
Epidermal growth factor receptors; Epidermal growth factor-urogastrone; Vasopressins; Serotonin (Blay, J. (172) 1)

Vasopressins
Vascular smooth muscle; Epidermal growth factor receptors; Epidermal growth factor-urogastrone; Serotonin (Blay, J. (172) 1)

Ventricle (bovine, left)
Smooth muscle (bovine, tracheal); Muscarine receptor subtypes; (Allosteric modulation) (Roffel, A.F. (172) 61)

[^{3}H]Zacopride
Radiation inactivation; 5-HT_3 receptors; Cerebral cortex (rat); Molecular weight (Gozlan, H. (172) 497)